

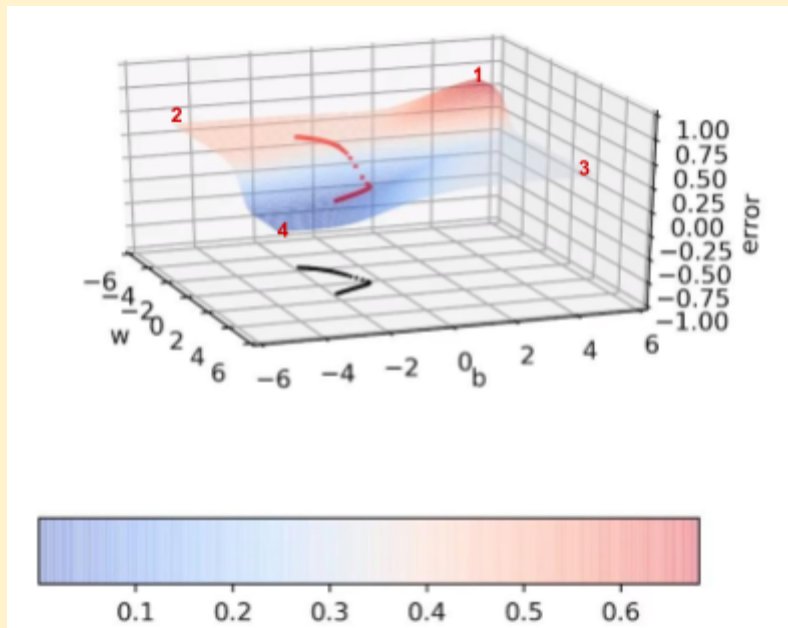
# PadhAI: Variants of Gradient Descent

## One Fourth Labs

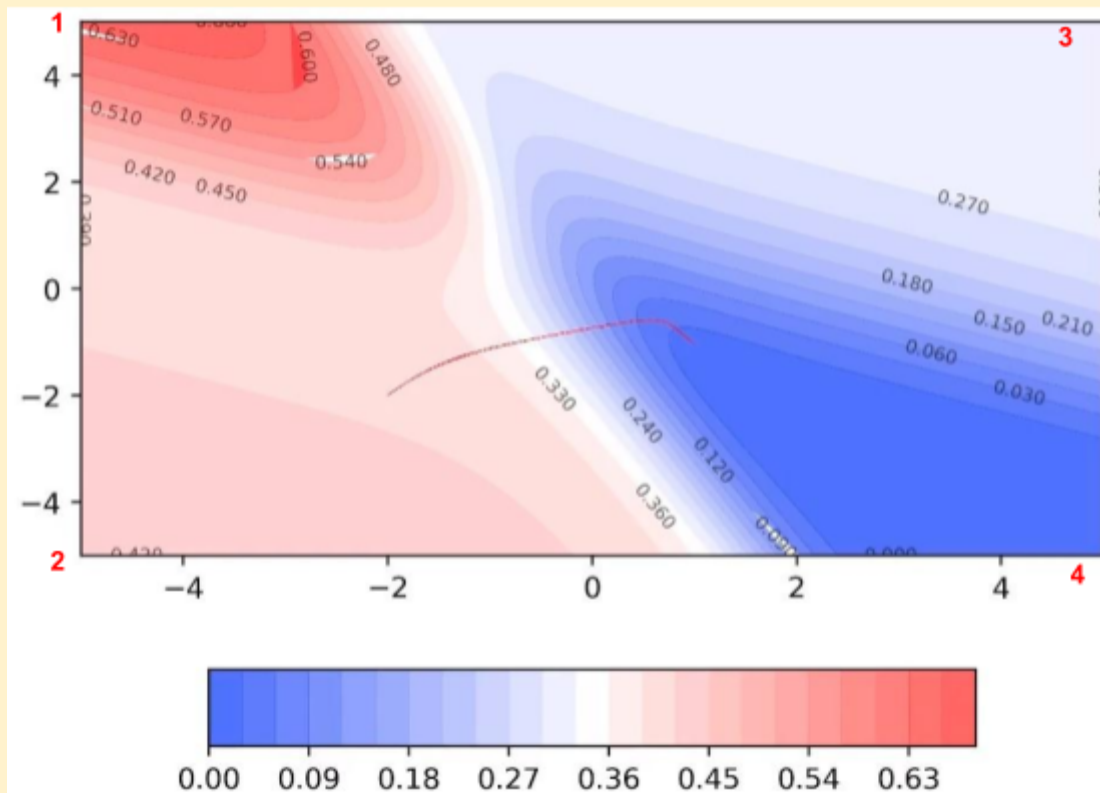
### Visualising gradient descent on a 2D contour map

Can we visualise Gradient Descent on a 2D error surface?

1. Now we will visualise Gradient descent on a 3D map and then its corresponding 2D map
2. Here is the 3D plot that we have seen many times before



3. Now, let's look at the same Gradient Descent plotted in a 2D contour map



4. In both of the plots, the GD line eventually reaches the centre of the dark-blue region.